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*McGowan, R.W.; Cheville, R.A.; Grischowsky, D.R.;*

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**2 Long-wavelength ( $\lambda=10\ \mu\text{m}$ ) quadrupolar-shaped GaAs-AlGaAs microlasers**
*Gianordoli, S.; Hvozdar, L.; Strasser, G.; Schrenk, W.; Faist, J.; Gornik, E.;*  
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*Calero, J.; Sou-Pan Wu; Pope, C.; Shun Lien Chuang; Murtha, J.P.;*  
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**4 Ionization-induced generation of strong Langmuir waves by high-intensity Bessel beam**
*Gildenburg, V.B.; Vvedenskii, N.V.;*  
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**6 Optimization of the cavity geometry in tunable optical parametric oscillators based on cylindrical crystals**

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**3 Phase variation in free-electron laser amplifiers***Freund, H.; Ganguly, A.;*

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**4 High frequency scattering from trihedral corner reflectors and other benchmark targets: SBR versus experiment***Baldauf, J.; Lee, S.-W.; Lin, L.; Jeng, S.-K.; Scarborough, S.M.; Yu, C.L.;*

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**5 Def rmed glass micr sphere as a three-dimensi nal cha tic ptical  
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Light scattering from hair is normally simulated in computer graphics using Kajiya and Kay's classic phenomenological model. We have made new measurements of scattering from individual hair fibers that exhibit visually significant effects not predicted by Kajiya and Kay's model. Our measurements go beyond previous hair measurements by examining out-of-plane scattering, and together with this previous work they show a multiple specular highlight and variation in scattering with rotation about the ...

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W. A. van de Grind

January 1987 **Proceedings of the 1986 workshop on Interactive 3D graphics**Full text available:  pdf(3.51 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One important message of this paper is that vision research is highly relevant to 3D graphics technology and that modern electronic graphical systems can and soon will strongly stimulate the further development of vision science. First an outline is given of ecological optics, the discipline trying to describe the visual information available to an active (mobile, structure-seeking) observer. Whereas ecological optics describes the available visual structure, the observables, psychophysics ...

**3** [Three-dimensional object recognition](#)

Paul J. Besl, Ramesh C. Jain

March 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 1Full text available:  pdf(7.76 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


A general-purpose computer vision system must be capable of recognizing three-dimensional (3-D) objects. This paper proposes a precise definition of the 3-D object recognition problem, discusses basic concepts associated with this problem, and reviews the relevant literature. Because range images (or depth maps) are often used as sensor input instead of intensity images, techniques for obtaining, processing, and characterizing range

data are also surveyed.

4 WebTOP: 3D interactive optics on the Web

Kiril Vidimče, John T. Foley, David C. Banks, Yong-Tze Chi, Taha Mzoughi

February 2000 **Proceedings of the fifth symposium on Virtual reality modeling language (Web3D-VRML)**

Full text available:  pdf(1.23 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Optics Project (TOP) is a 3D interactive computer graphics system that visualizes optical phenomena. The primary motivation for creating TOP was to develop a tool to help undergraduate students learn optics. WebTOP is a Web-based version of the system that encompasses a physical simulation, an overview of the theory involved, a showcase of examples, and a set of suggested exercises. The actual simulation is implemented using VRML, Java, and the External Authoring Interface, and runs und ...

**Keywords:** EAI, Java, VRML, computer graphics, education, optics, simulations

5 Physically-based simulation: A survey of the modelling and rendering of the earth's atmosphere

Jaroslav Sloup

April 2002 **Proceedings of the 18th spring conference on Computer graphics**

Full text available:  pdf(323.18 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the extensively researched fields in todays computer graphics are techniques for simulation and visualisation of various natural phenomena. This state of the art report is a survey of the methods for modelling and rendering of the cloudless Earth's atmosphere and related light effects. A physically based lighting model describing the light propagation through the atmosphere is presented. The model takes into account absorption and scattering by particles suspended in the atmosphere and ca ...

**Keywords:** atmospheric effects, light scattering, modelling of natural phenomena, photo-realistic image synthesis

6 A radar simulation program for a 1024-processor hypercube

J. L. Gustafson, R. E. Benner, M. P. Sears, T. D. Sullivan

August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**

Full text available:  pdf(1.34 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We have developed a fast parallel version of an existing synthetic aperture radar (SAR) simulation program, SRIM. On a 1024-processor NCUBE hypercube it runs an order of magnitude faster than on a CRAY X-MP or CRAY Y-MP processor. This speed advantage is coupled with an order of magnitude advantage in machine acquisition cost. SRIM is a somewhat large (30,000 lines of Fortran 77) program designed for uniprocessors; its restructuring for a hypercube provides new lessons in the task of alteri ...

7 Coincident display using haptics and holographic video

Wendy Plesniak, Ravikanth Pappu

January 1998 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available:  pdf(1.12 MB)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** autostereoscopic display, coincident display, electro-holography, haptics, holography, offset display

### 8 Adaptive block rearrangement

Sedat Akyürek, Kenneth Salem

May 1995 **ACM Transactions on Computer Systems (TOCS)**, Volume 13 Issue 2

Full text available:  pdf(2.27 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


An adaptive technique for reducing disk seek times is described. The technique copies frequently referenced blocks from their original locations to reserved space near the middle of the disk. Reference frequencies need not be known in advance. Instead, they are estimated by monitoring the stream of arriving requests. Trace-driven simulations show that seek times can be cut substantially by copying only a small number of blocks using this technique. The technique has been implemented by modi ...

**Keywords:** data clustering, data replication, seek optimization

### 9 Ray tracing generalized cylinders

Willem F. Bronsvort, Fopke Klok

October 1985 **ACM Transactions on Graphics (TOG)**, Volume 4 Issue 4

Full text available:  pdf(1.21 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

An algorithm is presented for ray tracing generalized cylinders, that is, objects defined by sweeping a two-dimensional contour along a three-dimensional trajectory. The contour can be any 'well-behaved' curve in the sense that it is continuous, and that the points where the tangent is horizontal or vertical can be determined, the trajectory can be any spline curve. First a definition is given of generalized cylinders in terms of the Frenet frame of the trajectory. Then the main problem in ...

### 10 Future directions in visual display systems

Ed Lantz

May 1997 **ACM SIGGRAPH Computer Graphics**, Volume 31 Issue 2

Full text available:  pdf(1.06 MB)


Additional Information: [full citation](#), [abstract](#), [index terms](#)


Visual displays have evolved in several parallel application areas including television, computer monitors, graphics monitors, portable displays, projection displays and most recently, immersive displays. Film, too, has matured as the highest resolution display medium available. One might mistakenly proclaim that today's visual displays produce an image quality which nearly matches that of our perception. The truth is that primitive cave petroglyphs viewed in fire-light far exceed the visual cap ...

### 11 Plenoptic modeling: an image-based rendering system

Leonard McMillan, Gary Bishop

September 1995 **Proceedings of the 22nd annual conference on Computer graphics and interactive techniques**

Full text available:  pdf(347.37 KB)

 ps(3.98 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 12 Scheduling algorithms for modern disk drives

Bruce L. Worthington, Gregory R. Ganger, Yale N. Patt

May 1994 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1994 ACM SIGMETRICS conference on Measurement and modeling of computer systems**, Volume 22 Issue 1

Full text available:  pdf(1.01 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Disk subsystem performance can be dramatically improved by dynamically ordering, or scheduling, pending requests. Via strongly validated simulation, we examine the impact of complex logical-to-physical mappings and large prefetching caches on scheduling effectiveness. Using both synthetic workloads and traces captured from six different user environments, we arrive at three main conclusions: (1) Incorporating complex mapping information into the scheduler provides only a ma ...

### 13 High Performance Simulation of Internal Combustion Engines

Andreas Werner, Harald Echtle, Monika Wierse

November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available:  html(32.18 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)


At the moment, the design process of piston engines is mainly characterized by building, testing and modifying prototypes. Computer simulation is used as a complimentary tool and in research, mainly because setting up, calculating and analyzing an ICE simulation currently has turnaround times of several weeks. All steps of the simulation, pre-processing, calculation and post-processing, had to be accelerated to create a usable tool for the industrial development process. Therefore, the EC Esprit ...

**Keywords:** CFD, HPC, VR, combustion, engine simulation, grid generation, parallel computing, simulation, visualization


### 14 A virtual environment and model of the eye for surgical simulation

Mark A. Sagar, David Bullivant, Gordon D. Mallinson, Peter J. Hunter

July 1994 **Proceedings of the 21st annual conference on Computer graphics and interactive techniques**

Full text available:  pdf(667.19 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

 ps(8.17 MB)

An anatomically detailed 3-D computer graphic model of the eye and surrounding face within a virtual environment has been implemented for use in a surgical simulator. The simulator forms part of a teleoperated micro-surgical robotic system being developed for eye surgery. The model has been designed to both visually and mechanically simulate features of the human eye by coupling computer graphic realism with finite element analysis. The paper gives an overview of the system with e ...

### 15 Computational Approaches to Image Understanding

Michael Brady

January 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 1

Full text available:  pdf(10.04 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 16 An efficient instantiation algorithm for simulating radiant energy transfer in plant models

Cyril Soler, François X. Sillion, Frédéric Blaise, Philippe Dereffye

April 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 2

Full text available:  pdf(467.92 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe a complete lighting simulation system tailored for the difficult case of




vegetation scenes. Our algorithm is based on hierarchical instantiation for radiosity and precise phase function modeling. It allows efficient calculations both in terms of computation and memory resources. We provide an in-depth description and study of the instantiation-based radiosity technique and we address the problems related to generating and managing phase functions of plant structures, as needed by the ...

**Keywords:** Plant growth simulation, calibrated physiological simulation, instantiation, landscape simulation, lighting simulation, radiosity

#### 17 A model for anisotropic reflection

Pierre Poulin, Alain Fournier

September 1990 **ACM SIGGRAPH Computer Graphics , Proceedings of the 17th annual conference on Computer graphics and interactive techniques**, Volume 24 Issue 4

Full text available:  pdf(3.24 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



#### 18 Display of the earth taking into account atmospheric scattering

Tomoyuki Nishita, Takao Sirai, Katsumi Tadamura, Eihachiro Nakamae

September 1993 **Proceedings of the 20th annual conference on Computer graphics and interactive techniques**

Full text available:  pdf(404.55 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)




**Keywords:** atmospheric scattering, color of water, earth, optical length, photo-realism, radiative transfer, sky light

#### 19 Predicting reflectance functions from complex surfaces

Stephen H. Westin, James R. Arvo, Kenneth E. Torrance

July 1992 **ACM SIGGRAPH Computer Graphics , Proceedings of the 19th annual conference on Computer graphics and interactive techniques**, Volume 26 Issue 2

Full text available:  pdf(8.26 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**Keywords:** BRDF, Monte Carlo, anisotropic reflection, spherical harmonics

#### 20 Gross motion planning—a survey

Yong K. Hwang, Narendra Ahuja

September 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 3

Full text available:  pdf(6.40 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



Motion planning is one of the most important areas of robotics research. The complexity of the motion-planning problem has hindered the development of practical algorithms. This paper surveys the work on gross-motion planning, including motion planners for point robots, rigid robots, and manipulators in stationary, time-varying, constrained, and movable-object environments. The general issues in motion planning are explained. Recent approaches and their performances are briefly described, a ...

**Keywords:** collision detection, computational geometry, implementation, motion planning, obstacle avoidance, path planning, spatial representation

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Components, Packaging, and Manufacturing Technology, Part A, IEEE Transactions on [see also Components, Hybrids, and Manufacturing Technology, IEEE Transactions on] , Volume: 17 , Issue: 3 , Sept. 1994

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